

2011 Imaging Criteria

Positron Emission Tomography (PET), PET-CT (Pediatric) (Custom)

- UDOH(1, 2, 3, 4)

Created based on InterQual Subset: Positron Emission Tomography (PET), Whole Body (Pediatric)

Version: InterQual® 2011

CLIENT:	Name	D.O.B.	ID#	GROUP#
CPT/ICD9:	Code	Facility	Service Date	
PROVIDER:	Name		ID#	Phone#
	Signature		Date	
ICD-9-CM:	92.18			
INDICATIO	NS (choose one	and see below)		
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	Thot Listed (Flovi			
□ 110 □ 120 □ 1 □ 130 □ 1 □ 1 □ 1	Baseline scan as Baseline scan pos 21 Periodic asse 22 Restaging aft New/worsening S 31 Enlarged lym 32 CT/MRI suspi 33 CT/MRI nond	sitive [One] (7) ssment during chemother chemotherapy/radia x/findings with known	nerapy/radiation (8, 9, 10) ution completed (10, 11) lymphoma [One] (12) etastasis	
□ 210 □ 220 □ 2 □ 2 □ 230 □ 2	22 Restaging aft New/worsening S 31 CT/MRI suspi		oleted [One] sarcoma [One] etastasis	

InterQual® criteria are intended solely for use as screening guidelines with respect to the medical appropriateness of healthcare services and not for final clinical or payment determination concerning the type or level of medical care provided, or proposed to be provided, to the patient.

Notes

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(1)

These criteria include the following procedure: PET/CT Fusion

(2)

While CT or MRI provides anatomic information that is helpful in the evaluation of cancer, the utility of these studies is often limited by scarring or benign postoperative changes that can be difficult to differentiate from tumor. PET scans image metabolic function and usually can distinguish between benign and malignant changes by utilizing a radiolabeled tracer, most commonly ¹⁸F-fluorodeoxyglucose (FDG), which is incorporated into tumor cells more avidly because of higher metabolic rates (Rohren et al., Radiology 2004; 231(2): 305-332). PET is appropriate to determine management for biopsy proven cancer or cancer strongly suspected based on other diagnostic testing; it is not used to establish a diagnosis of cancer (Podoloff et al., J Natl Compr Canc Netw 2009; 7 Suppl 2: S1-26).

(3)

Virtually all newly installed PET systems in the U.S. are PET/CT systems, rather than dedicated stand-alone PET units. PET/CT is increasingly used to diagnose suspected cancer, for initial staging, for restaging after completion of therapy, and for suspected recurrence (Blodgett et al., Radiology 2007; 242(2): 360-385). Therefore, PET/CT may be utilized for any oncological indication where PET scanning is considered appropriate.

(4)

The diagnostic utility of FDG-PET has led to important changes in the clinical management of lymphomas and, to a lesser extent, sarcomas, in the pediatric population (Jadvar et al., Semin Nucl Med 2007; 37(5): 316-331). The use of PET/CT in other pediatric malignancies has yet to be rigorously studied (Federman and Feig, J Nucl Med 2007; 48(12): 1920-1922).

(5)

Non-Hodgkin's and Hodgkin's lymphoma account for up to 15% of pediatric malignancies (Jadvar et al., Semin Nucl Med 2007; 37(5): 316-331). FDG-PET is useful for staging and follow-up of pediatric patients with lymphoma (Hernandez-Pampaloni et al., Pediatr Radiol 2006; 36(6): 524-531).

(6)

Non-Hodgkin's lymphoma and Hodgkin's disease may be symptomatic (e.g., fever, weight loss, night sweats) or may be suspected by virtue of enlarged lymph nodes. Imaging is required to document the extent of lymphatic involvement because management is affected by the results (Kumar et al., Radiol Clin North Am 2004; 42(6): 1083-1100, viii). Conventional CT and gallium scan have traditionally been used to guide therapy, assess tumor response, and assess possible recurrence; however, PET has replaced gallium scan for the staging and evaluation of lymphoma and is useful in guiding therapy and determining recurrent disease (Podoloff et al., J Natl Compr Canc Netw 2007; 5 Suppl 1: S1-S22; quiz S23-22).

(7)

A repeat scan is usually not necessary unless the initial scan was positive.

(8)

In clinically stable or improving patients, reassessment by PET is generally not necessary more frequently than after every two cycles of chemotherapy. However, oncologists are increasingly ordering PET after the first cycle of chemotherapy if there is clinical suspicion of early therapy failure or to assess early response to therapy.

(9)

PET provides an early noninvasive metabolic assessment of tumor response to therapy and may provide sufficient information to change ineffective treatment (Pons et al., Q J Nucl Med Mol Imaging 2009; 53(2): 210-223; Rosen et al., Radiographics 2007; 27 Suppl 1: S215-229).

(10)

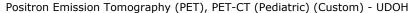
Therapy for certain types of pediatric lymphoma may leave a fibrotic mass, which is visible on CT or MRI. FDG PET/CT is useful in differentiating fibrotic scarring from residual active disease (Tatsumi et al., J Nucl Med 2007; 48(12): 1923-1931).

(11)

PET has proven more reliable in identifying responders after treatment, while CT is not always able to differentiate tumor from inflammatory reactions, edema, and scar tissue.

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(12)

New or worsening symptoms and findings include night sweats, weight loss, ESR > 30 mm/hr, or temperature > 100.4 F(38.0 C) ≥ 1 week of unknown etiology. Patients with suspected recurrence or metastatic disease undergo CT or MRI as the initial study.

(13)

Rhabdomyosarcoma is the most common soft-tissue malignancy in the pediatric population (Loeb et al., Surg Clin North Am 2008; 88(3): 615-627). Osteosarcoma, typically a lesion of the long bones, and Ewing's sarcoma are the 2 primary bone malignancies of childhood. PET is useful in staging and therapy planning in pediatric sarcomas (Volker et al., J Clin Oncol 2007; 25(34): 5435-5441).

(14

PET/CT is significantly more accurate than PET alone in the staging and restaging of Ewing sarcoma (Gerth et al., J Nucl Med 2007; 48(12): 1932-1939).

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